

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102219\  
 Data File : VV013277.D  
 Acq On : 22 Oct 2019 14:25  
 Operator : SY/MD  
 Sample : K5462-05  
 Misc : 25.00ML/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0G42

Quant Time: Oct 23 01:57:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 23 01:23:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 421686   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 459677   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 234417   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 199537   | 6.42     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 128.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 164670   | 6.42     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 128.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 248116   | 4.49     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.80%   |
| 20) 2-Butanone-d5              | 3.95   | 46    | 412317   | 69.06    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 138.12%# |
| 24) Chloroform-d               | 4.40   | 84    | 411723   | 5.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 195288   | 5.76     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 115.20%  |
| 32) Benzene-d6                 | 5.10   | 84    | 828523   | 5.57     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 111.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 251433   | 5.62     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 112.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 681455   | 4.94     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80%   |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 79321    | 4.68     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.60%   |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 254352   | 42.12    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.24%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 175469   | 5.43     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 270882   | 5.94     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 118.80%  |

## Target Compounds

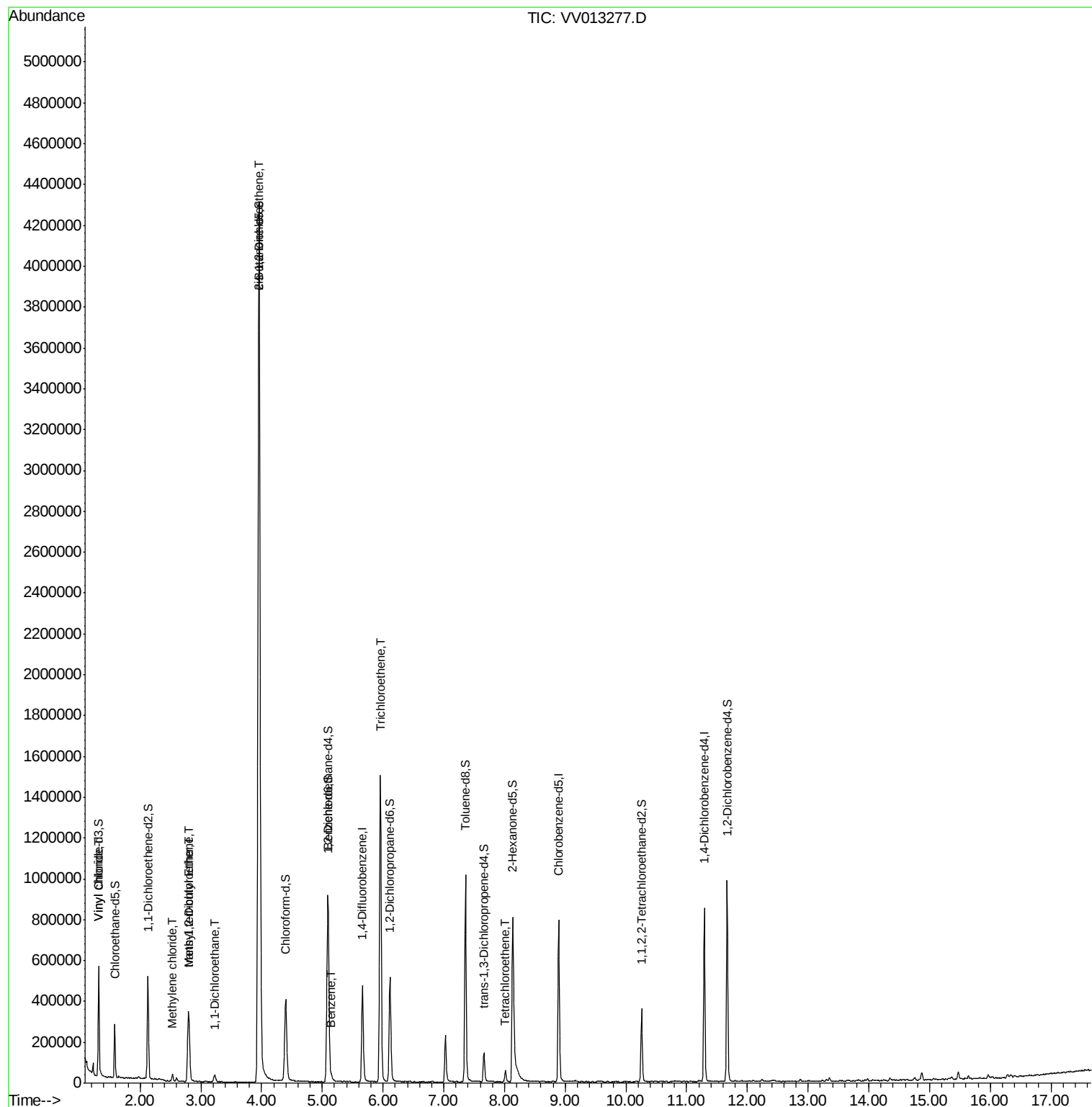
| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.32 | 62   | 141619   | 3.480  | ug/L   | 98     |
| 16) Methylene chloride       | 2.53 | 84   | 15044    | 0.302  | ug/L   | 92     |
| 17) Methyl tert-butyl Ether  | 2.81 | 73   | 227319   | 2.961  | ug/L   | 96     |
| 18) trans-1,2-Dichloroethene | 2.79 | 96   | 77498    | 1.983  | ug/L   | 93     |
| 19) 1,1-Dichloroethane       | 3.23 | 63   | 33730    | 0.531  | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96   | 2390722  | 57.149 | ug/L # | 88     |
| 33) Benzene                  | 5.15 | 78   | 23159    | 0.132  | ug/L   | 100    |
| 34) Trichloroethene          | 5.96 | 95   | 516749   | 10.972 | ug/L   | 98     |
| 47) Tetrachloroethene        | 8.02 | 164  | 13834    | 0.323  | ug/L   | 91     |

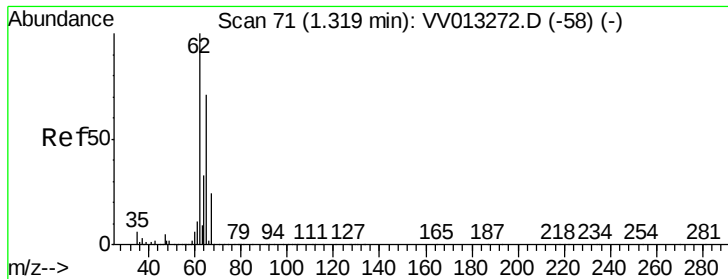
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 23 01:57:26 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Oct 23 01:23:09 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.480 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Instrument :

MSVOA\_V

ClientSampled :

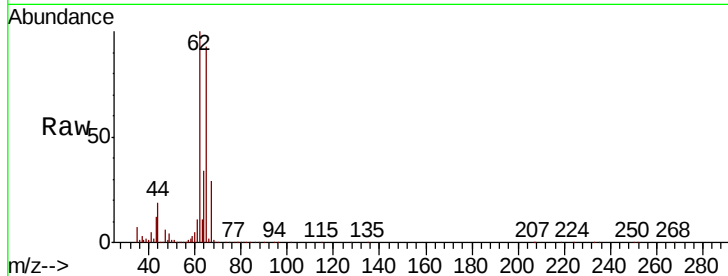
H0G42

Tot Ion: 62 Resp: 141619

Ion Ratio Lower Upper

62 100

64 33.9 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

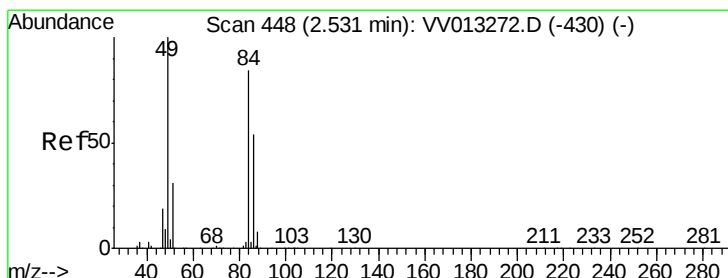
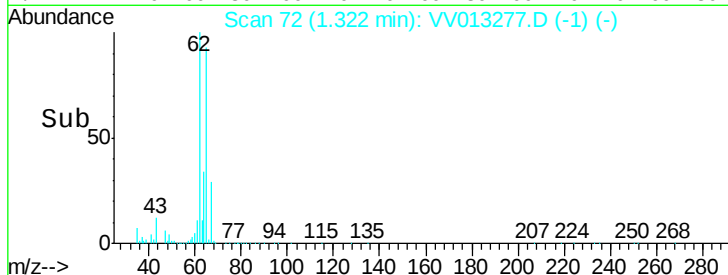
150000

100000

50000

0

Time-->



#16

Methylene chloride

Concen: 0.302 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

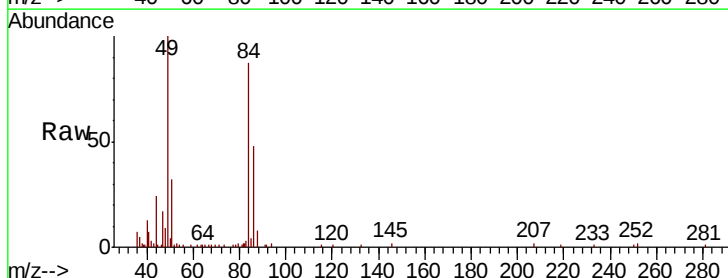
Tgt Ion: 84 Resp: 15044

Ion Ratio Lower Upper

84 100

86 55.6 46.2 85.8

49 114.7 76.4 141.8



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

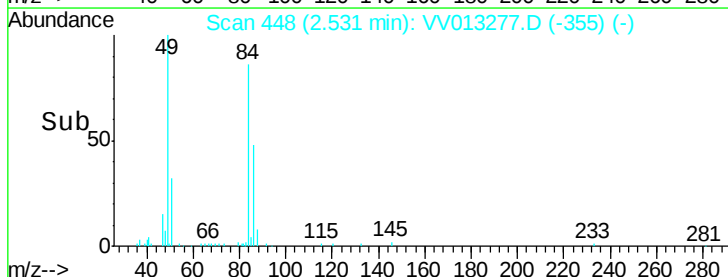
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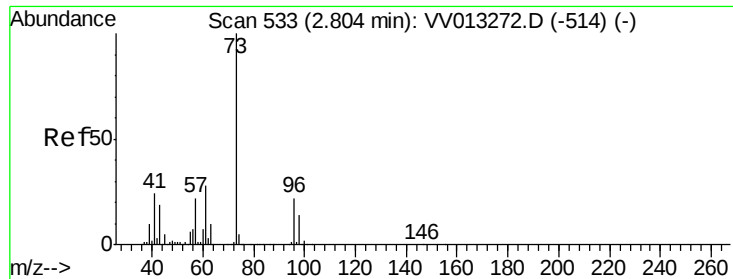
10000

5000

0

Time-->

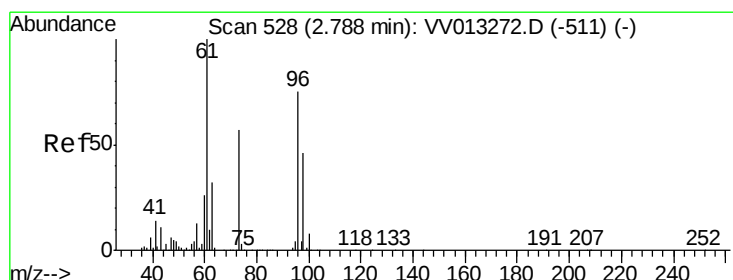
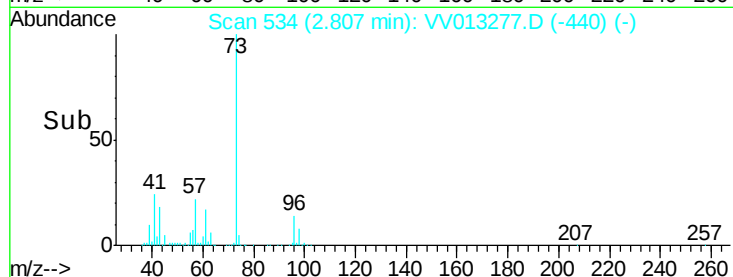
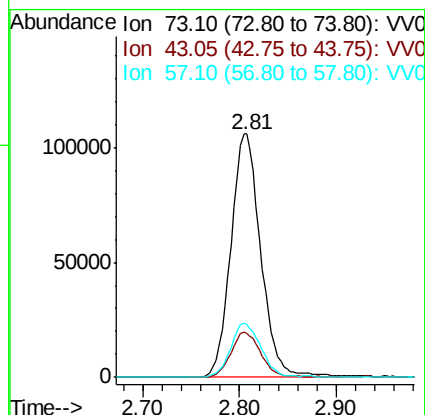
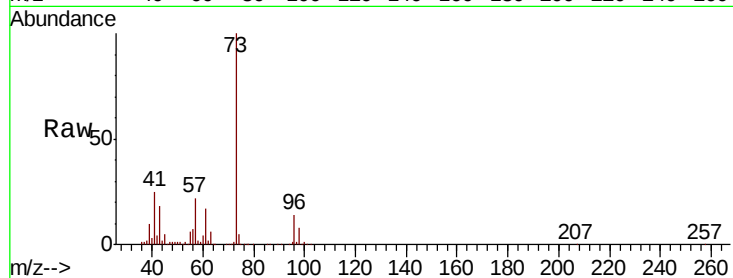




#17  
Methvl tert-butvl Ether  
Concen: 2.961 ug/L  
RT: 2.81 min Scan# 534  
Delta R.T. 0.00 min  
Lab File: VV013277.D  
Acq: 22 Oct 2019 14:25

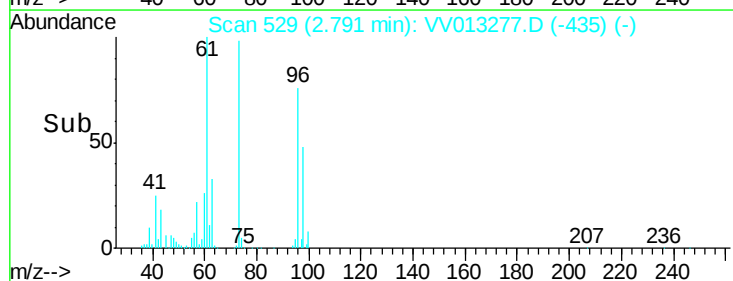
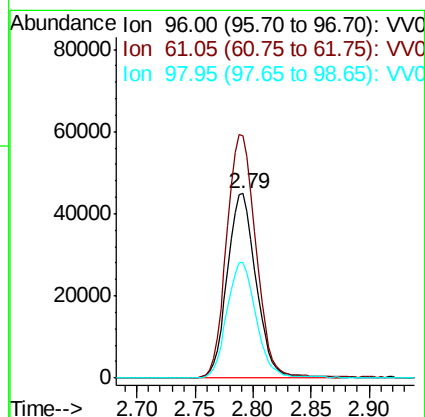
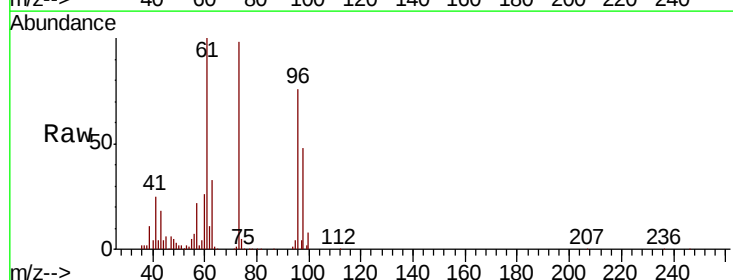
Instrument :  
MSVOA\_V  
ClientSampled :  
H0G42

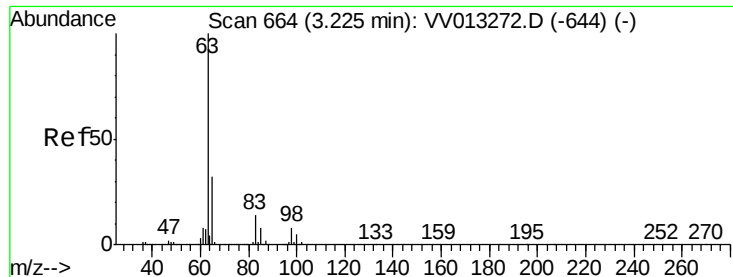
Tot Ion: 73 Resp: 227319  
Ion Ratio Lower Upper  
73 100  
43 18.3 13.1 19.7  
57 22.6 16.4 24.6



#18  
trans-1,2-Dichloroethene  
Concen: 1.983 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV013277.D  
Acq: 22 Oct 2019 14:25

Tgt Ion: 96 Resp: 77498  
Ion Ratio Lower Upper  
96 100  
61 131.3 84.4 156.8  
98 62.9 44.4 82.4

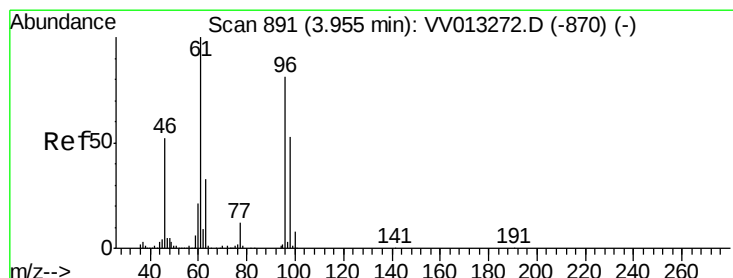
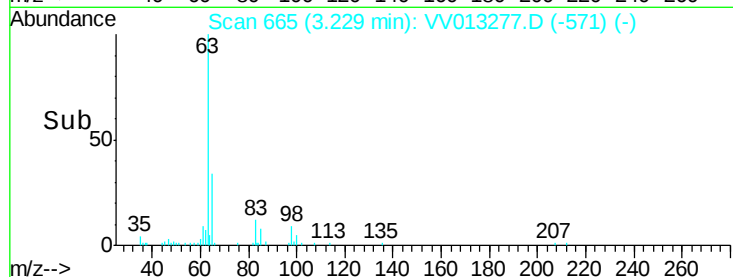
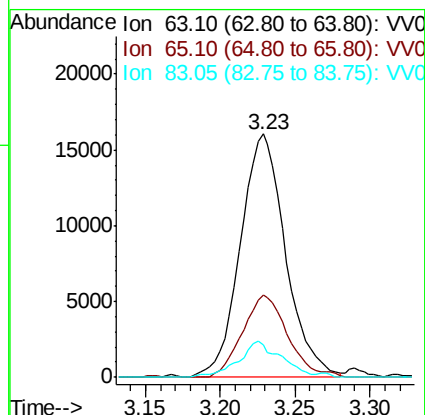
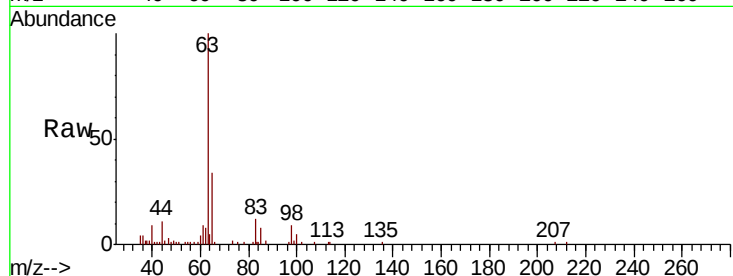




#19  
 1,1-Dichloroethane  
 Concen: 0.531 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV013277.D  
 Acq: 22 Oct 2019 14:25

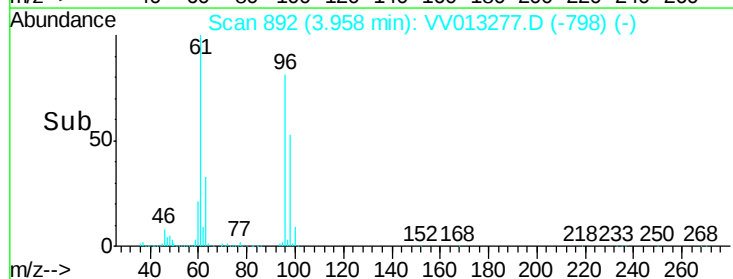
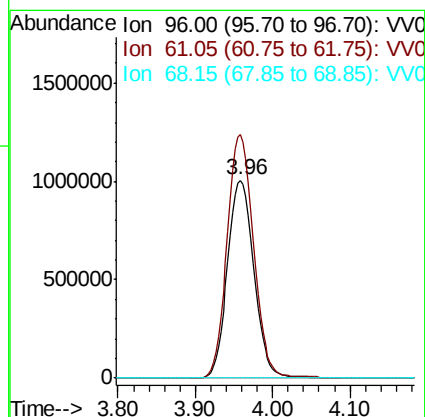
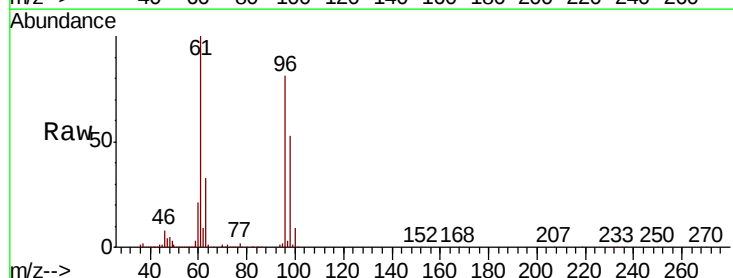
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0G42

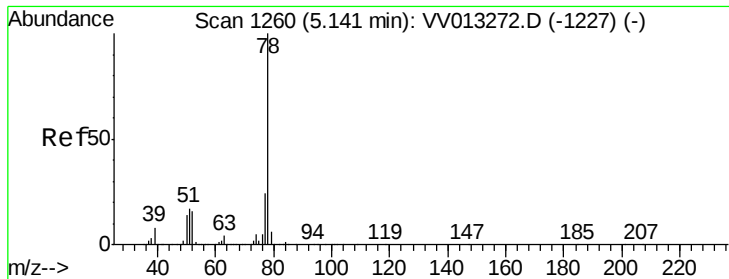
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 33.6  | 23.0  | 42.8  |
| 83      | 13.4  | 10.2  | 19.0  |



#22  
 cis-1,2-Dichloroethene  
 Concen: 57.149 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. 0.00 min  
 Lab File: VV013277.D  
 Acq: 22 Oct 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 123.1 | 77.3  | 143.7 |
| 68      | 0.0   | 0.1   | 0.1#  |





#33

Benzene

Concen: 0.132 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

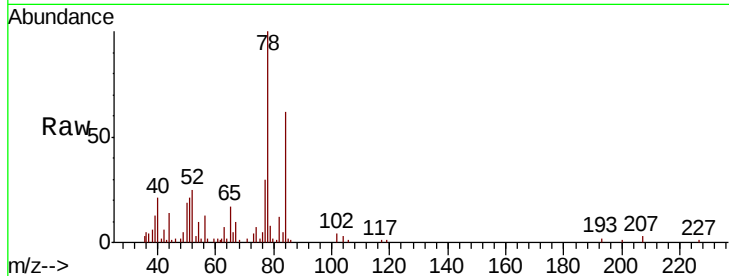
Instrument :

MSVOA\_V

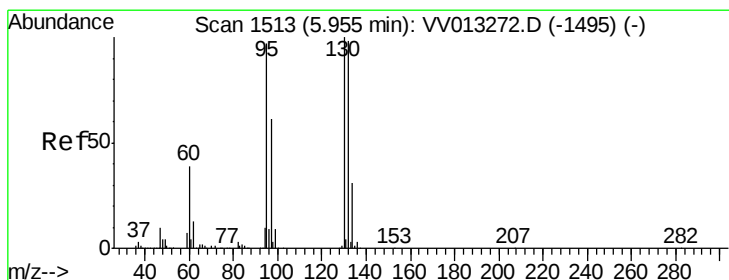
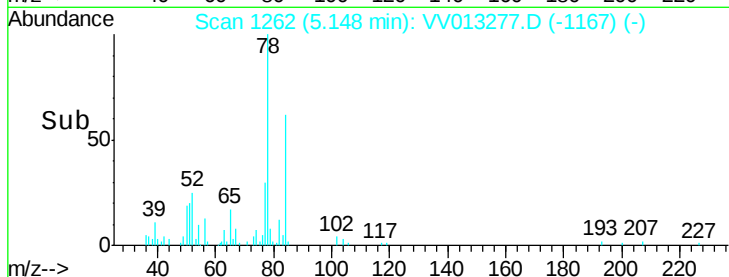
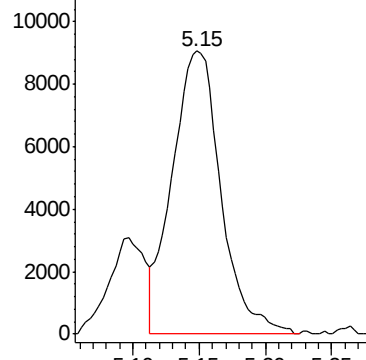
ClientSampleId :

H0G42

Tgt Ion: 78 Resp: 23159



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 10.972 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Tgt Ion: 95 Resp: 516749

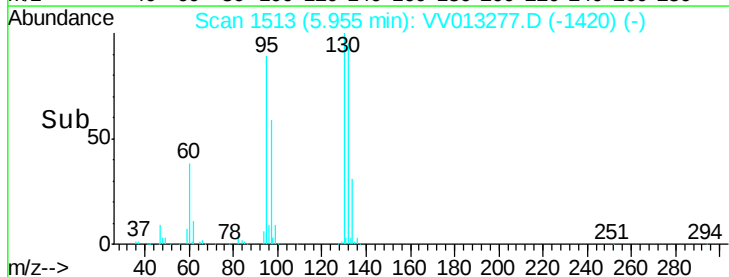
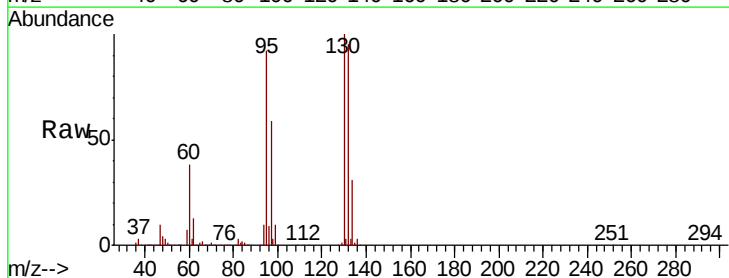
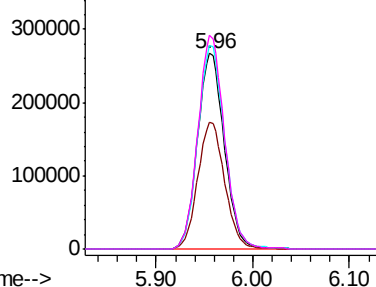
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.5  | 45.2  | 84.0  |
| 132 | 103.8 | 70.6  | 131.2 |
| 130 | 109.3 | 75.5  | 140.3 |

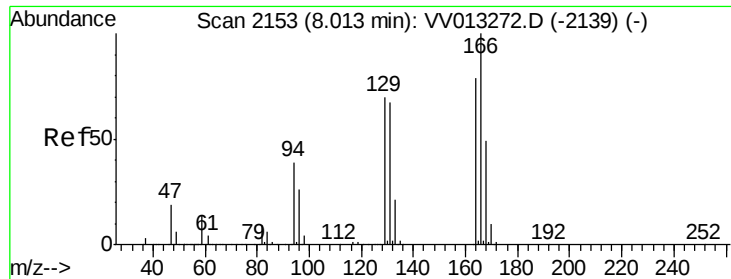
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0





#47

Tetrachloroethene

Concen: 0.323 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013277.D

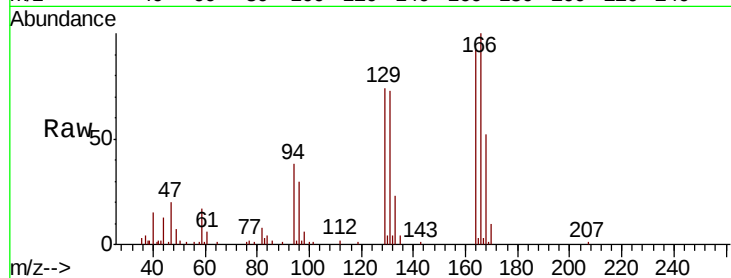
Acq: 22 Oct 2019 14:25

Instrument :

MSVOA\_V

ClientSampleId :

H0G42



Tot Ion:164 Resp: 13834

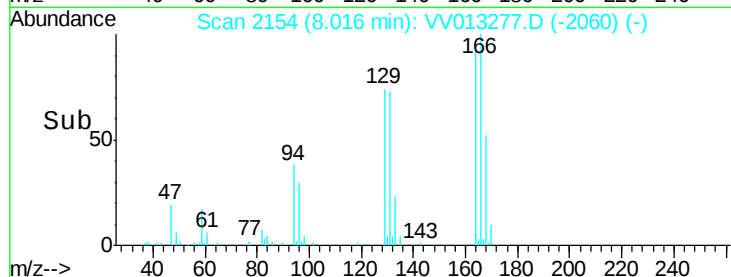
Ion Ratio Lower Upper

164 100

129 80.3 61.0 113.2

131 79.5 57.5 106.9

166 108.3 87.8 163.0



Time-->